

## ABSTRACT OF THE DISCLOSURE

A variety of heparanase specific molecular probes which can be used for research and medical applications including diagnosis and therapy. Specific applications include the use of a heparanase specific molecular probe for detection of the presence, absence or level of heparanase expression; the use of a heparanase specific molecular probe for therapy of a condition associated with expression of heparanase; the use of a heparanase specific molecular probe for quantification of heparanase in a body fluid; the use of a heparanase specific molecular probe for targeted drug delivery; and the use of a heparanase specific molecular probe as a therapeutic agent.